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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,325	08/27/2003	Jaime Bayan	NSC1P274/P05649	6886

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EXAMINER
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IM, JUNGHWA M

ART UNIT	PAPER NUMBER
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2811

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. <b>AK</b> 10/650,325	Applicant(s) BAYAN ET AL.	
	Examiner Junghwa M. Im	Art Unit 2811	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 13 December 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1,3-16,18-22 and 31-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-16,18-22 and 31-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/13/2004</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-16, 18-22 and 31-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 11 and 15 recite a limitation of “... wire bonding landings exposed on a top surface ...” This limitation recites what is shown in Fig. 4B and /or Fig. 5A, and it is pointed that what is shown in Fig. 4B and 5A is an intermediate structure. As disclosed in paragraph [0020], Fig. 4B and 5A are a structure before encapsulation. Therefore, after encapsulation as disclosed in paragraph [0028], the wire bonding landings are *not exposed*, rather they are encapsulated/covered with molding material. Further confusing matter is that claim 15 recites a limitation of “a second dielectric layer that encapsulates the die and the plurality of connectors” and the instant invention does not disclose this limitation. In detail, the instant invention does not disclose that the top surface of the wire bonding landings is exposed while the die and the plurality of connectors are encapsulated.

Claims 1, 11 and 15 include a limitation which implies as if a wire bonding landings and the lead segments are distinctively different portions of the structure. In particular, claim 11 recites a limitation of “...wherein at least some of the wire bonding landings are thinner than the substrate panel, such that the thinner wire bonding landings are not exposed on the bottom surface of the substrate panel, and at least selected portions of the lead segments are thinner than

Art Unit: 2811

the substrate panel such that the selected portions of the lead segments are not exposed on the bottom surface of the substrate panel” implying two distinctive structures. However, the figures of the instant invention explicitly disclose that the wire bonding landing is a portion of the lead segment.

Claims 9 and 22 recite an added limitation of “by only an additional lead segment.” This phrase does not carry a clear meaning, and it is further noted that the instant invention does not disclose this aspect.

Claim 10 recite a limitation of “the contacts are located closer to...” which does not carry a clear meaning. Further confusing matter is which contacts these contacts indicate between associate contacts or lead contacts.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-5, 7, 9, 11-12, 14-15, 19, 22 and 34-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang (US 6384472).

Regarding claim 1, Fig. 5 of Huang shows a substrate panel [Fig.10] for use in semiconductor packaging, comprising:

a lead-frame panel [602 in Fig. 10], including an array of device areas, each device area having a plurality of contacts exposed on a bottom surface of the substrate panel, a plurality of wire bonding landings [106] exposed on a top surface of the substrate panel, and lead segments [104] electrically coupling selected wire bonding landings to associated contacts [col. 4, lines 31-32]; and

a dielectric material [124] that fills spaces [122] between adjacent lead segments [col. 3, lines 54-56] wherein a top surface of the dielectric layer is substantially coplanar with the top surface of the substrate and the wire bonding landings, and a bottom surface of the dielectric layer is substantially coplanar with the bottom surface of the substrate panel and the lead contacts thereby forming a substrate having substantially planar top and bottom surfaces;

Regarding claim 4, Fig. 5 of Huang shows at least selected portions of the lead segments are thinner than the substrate panel such that the selected portions of the lead segments are not exposed on the bottom surface of the substrate panel.

Regarding claim 5, Fig. 10 of Huang shows the device areas are arranged in at least one two dimensional array such that the substrate has at least two dimensional array of device area.

Regarding claim 7, Fig. 5 of Huang shows each device area further includes a die attach pad [102], the die attach pad being exposed on the top surface of the substrate panel.

Regarding claim 9, insofar as understood, it is inherent that at least one of the wire bonding landings is electrically coupled to the die attach pad since Fig. 5 of Huang shows the wire bonding landings and the die pad are a portion of the same lead frame [100].

Regarding claim 11, insofar as understood, Fig. 5 of Huang shows a substrate panel [Fig. 10] for use in semiconductor packaging, comprising:

Art Unit: 2811

a lead-frame [602 in Fig. 10] panel including a two dimensional array of device areas, each device area having a plurality of contacts exposed on a bottom surface of the substrate panel, a plurality of wire bonding landings [106] exposed on a top surface of the substrate panel, and lead segments [104] electrically coupling selected wire bonding landings to associated contacts [col. 4, lines 31-32]; and

a dielectric material [124] that fills spaces [122] between adjacent lead segments, wherein a top surface of the dielectric material is substantially coplanar with the top surface of the substrate panel and the wire bonding landings, and a bottom surface of the dielectric material is substantially coplanar with the bottom surface of the substrate panel and the lead contacts; and

wherein at least some of the wire bonding landings are thinner than the substrate panel, such that the thinner wire bonding landings are not exposed on the bottom surface of the substrate panel, and at least selected portions of the lead segments are thinner than the substrate panel such that the selected portions of the lead segments are not exposed on the bottom surface of the substrate panel.

Regarding claim 12, Fig. 5 of Huang shows each device area further includes a die attach pad [102], the die attach pad being exposed on the top surface of the substrate panel.

Regarding claim 14, it is inherent that at least one of the wire bonding landings is electrically coupled to the die attach pad since Fig. 5 of Huang shows the wire bonding landings and the die pad are a portion of the same lead frame [100].

Regarding claim 15, insofar as understood, Fig. 5 of Huang shows a packaged integrated circuit, comprising:

a substrate [600 in Fig. 10] including a plurality of contacts exposed on a bottom surface, a plurality of wire bonding landings [1-6] exposed on a top surface, lead segments[104] electrically coupling the wire bonding landings to associated lead contacts and a first dielectric layer [124] that fills spaces [122] between adjacent lead segments, wherein a top surface of the dielectric layer is substantially coplanar with the top surface of the substrate and the wire bonding landings, and a bottom surface of the dielectric layer is substantially coplanar with the bottom surface of the substrate panel and the lead contacts thereby forming a substrate having substantially planar top and bottom surfaces;

a die [130] mounted on the substrate, the die having a plurality of bond pads configured for electrical connection [through wire 140] to the wire bonding landings;

a plurality of connectors for electrically connecting the plurality of bond pads to associated wire bonding landings [col. 4, lines 31-32]; and

a second dielectric layer [a transparent material in the space 126; col. 4, lines 61-63] that encapsulates the die and the plurality of connectors and covers at least a portion of the top surface of the substrate.

Regarding claim 19, Fig. 5 of Huang shows at least selected portions of the lead segments are thinner than the thickness of the lead-frame, such that the selected portions of the lead segments are not exposed on the bottom surface of the substrate.

Regarding claim 22, it is inherent that at least one of the wire bonding landings is directly electrically coupled (through the direct connection to the landing portion of the lead frame) to the die attach pad (through the direct connection to the landing portion of the lead frame) by only an

Art Unit: 2811

additional lead segment since Fig. 5 of Huang shows the wire bonding landings and the die pad are a portion of the same lead frame [100].

Regarding claim 34, Fig. 10 of Huang shows the device areas are each arranged as microarrays.

Regarding claim 35, Fig. 5 of Huang shows the package is a lead frame based micro array package.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 6, 10, 16, 18, 20 and 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang in view of Lee (US 6713322).

Regarding claim 3, Fig. 5 of Huang shows the most aspect of the instant invention except “the wire bonding landings are thinner than the substrate panel, such that the wire bonding landings are not exposed on the bottom surface of the substrate panel.” Fig. 8 of Lee shows a semiconductor device wherein “the wire bonding landings [10a, 10c] are thinner than the substrate panel, such that the wire bonding landings are not exposed on the bottom surface of the substrate panel.”

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Huang in order to have the wire



Art Unit: 2811

bonding landings thinner than the substrate panel, such that the wire bonding landings are not exposed on the bottom surface of the substrate panel to improve the supporting structure of the package.

Regarding claim 6, Fig. 5 of Huang shows the most aspect of the instant invention except “the lead-frame further comprises a matrix of tie bars, the tie bars being positioned between immediately adjacent device areas in the two dimensional array of device areas and configured to support the lead segments.” Fig. 11 of Lee shows a semiconductor device wherein the lead-frame [100] further comprises a matrix of tie bars [4], the tie bars being positioned between adjacent device areas in the two dimensional array of device areas and configured to support the lead segments [col. 3, lines 34-37].

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Huang in order to have a matrix of tie bars positioned between adjacent device areas in the two dimensional array of device areas and configured to support the lead segments for a secure package configuration.

Regarding claim 10, Fig. 5 of Huang shows the most aspect of the instant invention except “the contacts are located between the wire bonding landings and the die attach pad.” Fig. 8 of Lee shows a semiconductor device wherein “at least one of the contacts [6] is located between the wire bonding landings [10] and the die attach pad [8].

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Huang in order to have at least one of the contacts located between the wire bonding landings and the die attach pad to form a ground contact as taught by Lee.

Regarding claim 16, Fig. 5 of Huang shows the first (124 between the gaps) and second dielectric layers (126) are not integrally formed however, fails to show “the first and second dielectric layers are formed from substantially the same materials.” Fig. 10 of Lee shows a semiconductor device wherein the first and second dielectric layers are formed from substantially the same materials [26; a sealing material]

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Huang in order to have the first and second dielectric layers formed from substantially the same materials to reduce the processing steps.

The subject matter regarding claim 18 has been discussed in claim 3 above.

Regarding claim 20, Fig. 5 of Huang shows the most aspect of the instant invention except “a die attach pad surrounded by the lead contacts.” Fig. 8 of Lee shows a semiconductor device wherein a die attach pad [8] surrounded by the lead contacts [6].

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Huang in order to have to a die surrounded by the lead contacts to from a ground contact as taught by Lee.

Regarding claim 31, Fig. 5 of Huang shows the wire bonding landings are located radially further from a center of their associated device area than their associated contacts and wherein the substrate panel has substantially planar top and bottom surfaces with the wire bond landings and the lead segments being exposed on the top surface of the substrate, however, fails to shows the lead segments being exposed not the bottom surface of the substrate.

Fig. 8 of Lee shows a semiconductor device wherein the wire bonding landings (the portion of the lead frame with a wire connection) are located radially further from a center of their associated device area than their associated contacts and wherein the substrate panel has substantially planar top and bottom surfaces with the wire bond landings and the lead segments being exposed on the top surface of the substrate not the bottom surface of the substrate.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Huang in order to have to the wire bonding landings located radially further from a center of their associated device area than their associated contacts and the substrate panel having substantially planar top and bottom surfaces with the wire bond landings and the lead segments being exposed on the top surface of the substrate not the bottom surface of the substrate to accommodate the specified shape of the lead frame.

Regarding claims 32 and 33, Fig. 9 of Lee shows at least some of the wire bonding landings have a width that is wider than an immediately adjacent portion of their associated lead segments and a thickness that is substantially the same as their associated lead segments.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Huang in view of Chien-Hung et al. (US Pat. Pub. 2003/006055), hereinafter Chien-Hung.

Regarding claim 8, Fig. 5 of Huang shows the most aspect of the instant invention except “the die attach pad has a plurality of posts exposed on the bottom surface of the substrate panel.” Fig. 1 of Chien-Hung shows a semiconductor wherein “the die attach pad [130] has a plurality of posts [132] exposed on the bottom surface of the substrate panel.”

Art Unit: 2811

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Chien-Hung in order to have the die attach pad with a plurality of posts exposed on the bottom surface of the substrate panel/a lead frame to improve the mounting capability to a circuit board.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Huang in view of Lee and Chien-Hung.

Regarding claim 13, Fig. 5 of Huang shows the most aspect of the instant invention except “the contacts surround the die attach pad, and wherein the die attach pad has a plurality of posts exposed on the bottom surface of the substrate panel, the contacts and the posts being arranged in a two dimensional array.” Fig. 8 of Lee shows a semiconductor device wherein the contacts [6] surround the die attach pad [8] while arranged in a two dimensional array.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Lee into the device of Huang in order to have the contacts located between the wire bonding landings and arranged in a two dimensional array to form a ground contact as taught by Lee.

The combined teachings of Huang and Lee shows the most aspect of the instant invention except “the die attach pad has a plurality of posts exposed on the bottom surface of the substrate panel, the posts being arranged in a two dimensional array.” Fig. 1 of Chien-Hung shows a semiconductor wherein the die attach pad [130] has a plurality of posts [132] exposed on the bottom surface of the substrate panel and arranged in a two dimensional array.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Chien-Hung into the device of Huang and Lee in order to have the die attach pad with a plurality of posts exposed on the bottom surface of the substrate panel [a lead frame] and arranged in a two dimensional array to improve the mounting capability to a circuit board.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Huang and Lee as applied to claim 20 above, and further in view of Chien-Hung.

Regarding claim 21, the combined teachings of Huang and Lee show the most aspect of the instant invention except "the die attach pad has a plurality of posts exposed on the bottom surface of the substrate." Fig. 1 of Chien-Hung shows a semiconductor wherein the die attach pad [130] has a plurality of posts [132] exposed on the bottom surface of the substrate/a lead frame.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teachings of Chien-Hung into the device of Huang and Lee in order to have the die attach pad with a plurality of posts exposed on the bottom surface of the substrate/a lead frame to improve the mounting capability to a circuit board.

### ***Response to Arguments***

Applicant's arguments filed December 13, 2004 have been fully considered but they are not persuasive. The rejection stands, modified only to accommodate the amendments made to the claims by Applicant. New rejections are made in response to Applicant amended claims.

Art Unit: 2811

In addition, Examiner presents the remarks below in response to Applicant's arguments.

Applicant argues in "Rejections under 35 USC 112" that "Although it is acknowledged that in many if not most implementations, the top surface of the substrate panel would not be exposed in a final package, it is respectfully submitted that this fact is not pertinent to the definiteness of the rejected claims. Claims 1 and 11 relate to the **substrate panel**, and as acknowledged by the Examiner, the wire bonding landings are exposed on the top surface of the substrate panel." This argument is very confusing. It is pointed out that a strict sense of a substrate panel of the instant invention comprises merely a lead frame since the instant invention is regarding a lead frame based substrate panel. Even with an assumption that that an additional element, in particular, a wire is added to be a part of the substrate panel even though the wire is actually a part of the entire package, the wire bond landing is not exposed since Applicant indicates that the wire bond landing is only the portion of the lead frame which has a contact with the wire. And the wire landing is not exposed since the wire is not exposed in a final product. And this aspect is clearly recited in claim 5.

In particular with claim 5, Applicant argues that "[c]aim 15 is directed to a package. However the language in claim 15 merely points out that the wire bonding landings are exposed on a top surface of the substrate." As pointed above in the office action, claim 5 has an additional limitation of "a second dielectric layer [a transparent material in the space 126; col. 4, lines 61-63] that encapsulates the die and the plurality of connectors and covers at least a portion of the top surface of the substrate." Therefore, the structure recited in claim 5 does not show that the wire bonding landings are exposed.

Art Unit: 2811

Applicant further argues that “[I]ndependent claims 1, 11 and 15 each required that ... the lead frame include **lead segments that electrically couple selected wire bonding landings to associated contacts**. It is respectfully submitted that Huang does not disclose such a structure. Specifically, the outstanding rejection identifies component 104 (i.e., the leads 104) as corresponding to the lead segments **lead segments that electrically couple selected wire bonding landings to associated contacts**. It is respectfully submitted that Huang does not disclose such a structure. Specifically, the outstanding rejection identifies component 104 (i.e., the leads 104) as corresponding to the lead segments. However, the rejection appears to rely on those same leads as constituting the contacts. It is respectfully submitted that since the bottom surfaces of the cited leads 104 act as the contacts, the Examiner has not identified (and Huang does not disclose) the use of lead segments that electrically couple wire bonding landings to associated contacts.” As discussed in the office action above, Fig. 5 of Huang explicitly shows that lead segments [104] that electrically couple selected wire bonding landings [106] to associated contacts as an external electrical connection (col. 4, lines 30-32).

### *Conclusion*

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after

Art Unit: 2811

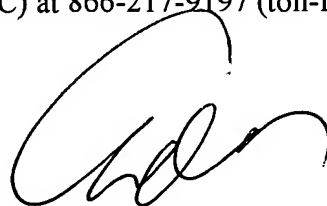
the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Junghwa M. Im whose telephone number is (571) 272-1655. The examiner can normally be reached on MON.-FRI. 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jmi



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